This Track 1 Decision Document is marked "Draft" but is a final document signed by the agencies.

_____ date 5/22/2002

DOE/ID- 10937
August 2001

SITE 023 TRACK 1 DECISION DOCUMENTATION PACKAGE, OU 10-08

DECISION DOCUMENTATION PACKAGE
COVER SHEET

Prepared in accordance with

TRACK 1 SITES:
GUIDANCE FOR ASSESSING
LOW PROBABILITY HAZARD SITES
AT THE INEEL

Site Description:	Debris in Birch Creek Drainage Gravel Pit		
Site ID:	023	**Operable Unit:**	10-08
Waste Area Group:	10		

I. Summary – Physical Description of the Site:

Site 023 consists of two aluminum agricultural sprinkler pipes located in a large gravel pit near Birch Creek, just off road T-28, approximately 5.5 miles north of Test Area North (TAN). This site was originally listed as part of an environmental baseline assessment in 1994 and identified as a potential new waste site in 1995. In accordance with Management Control Procedure-3448, "Reporting or Disturbance of Suspected Inactive Waste Sites", a new site identification form was completed for this site. As part of the process, a field team wrote a site description, and collected photographs and global positioning system (GPS) coordinates of the site (the GPS coordinates are E346687.307 by N821354.899). The GPS coordinate system is listed as North American Datum 27, Idaho East Zone, State Plane Coordinates. The new site identification process also included a search and review of existing historical documentation.

Investigations revealed that Site 023 includes two aluminum irrigation pipes, located near a large gravel pit. The pipes are agricultural in nature, weathered, and likely related to former farming or grazing operations.

There is no visual evidence of hazardous constituents, nor evidence that waste has recently been disposed of at this site. There is no evidence of disturbed vegetation, or stained or discolored soil. The ground surface shows well-established native grasses and sagebrush. The description of the site conditions is based on recent site investigations and INEEL historical research; no field screening or sample data exist for this site.

DECISION RECOMMENDATION

II. SUMMARY – Qualitative Assessment of Risk:

There is no evidence that a source of contamination exists at this site, nor is there empirical, circumstantial or other evidence of contaminant migration. The reliability of information provided in this report is high. Field investigations, interviews with INEEL Environmental Restoration Environmental Safety and Health (ER ES&H) and Cultural Resource personnel, and photographs revealed no visual evidence of hazardous substances that may present a danger to human health or the environment. Therefore, the overall qualitative risk at Site 023 is considered low.

III. SUMMARY – Consequences of Error:

False Negative Error:

The possibility of contaminant levels at this site being above risk-based limits is extremely remote. Field investigation of the two aluminum pipes and surface soil indicated no evidence of hazardous constituents, stained soil, odors, loss of vegetation, fibrous materials, or other indications of contamination.

False Positive Error:

If further action were completed at this low risk site, funds could exceed the environmental benefit. Surface soil sampling and analysis for organic compounds, metals, radionuclides and other hazardous constituents would be needed to confirm the presence or absence of contamination; however, based on existing information, there is no need for further action at this site.

IV. SUMMARY – Other Decision Drivers:

There are no other decision drivers for this site.

Recommended Action:

It is recommended that this newly identified site be classified as No Further Action. Field investigations, interviews with personnel having knowledge of this area, and photographs indicate it is highly unlikely that hazardous or radioactive materials were generated or disposed of at this site. It is located in a remote, abandoned area with no viable pathways or receptors. TAN is the closest facility located approximately 5.5 miles north. There is nothing present at this site that would indicate evidence of contaminant migration, or historical or threatened release of hazardous substances, pollutants or contaminants. This site consists of two weathered aluminum sprinkler pipes, and pose no potential risk to human health or the environment.

Signatures:	# Pages: 16	Date: 8/15/01
Prepared By: Marilyn Paarmann	DOE WAG Manager:	
Approved By:	Independent Review:	

DECISION STATEMENT
(DOE RPM)

Date Received: 3/18/02

Disposition:

The irrigation pipes found at site 023 do not represent a hazard. There was no additional debris found. No remedial action is required.

Date: 4/02/02	**# Pages:** ~~18~~ 1
Name: Kathleen Hain	**Signature:** Kathleen E Hain

DRAFT

DECISION STATEMENT
(EPA RPM)

Date Received: 9/21/01 10-08-023

Disposition:

Photographic evidence + site locatio support that site represents an agricultural scrap disposal dump. There is no basis to assume any activity that would generate hazardous substances. No further remedial investigatio appears necessary

Date: 9/25/01	**# Pages:** ~~10~~ 1
Name: Wayne Kenn	**Signature:** Wayne Kenn

DECISION STATEMENT
(IDEQ RPM)

Date Received: September 4, 2001

Disposition:

Site #023

Site #023 consists of two sections of aluminum irrigation pipe located in a large gravel pit that is about 5.5 miles north of TAN near Birch Creek. There is no evidence of other waste being present at this site. The state concurs this is a **no further action** site.

Date: 2/2/02	# Pages:
Name: Dean J. Nygard	Signature: Dean J Nygard

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PROCESS/WASTE WORKSHEET

SITE ID: 023 **PROCESS:** Debris in Birch Creek Drainage Gravel Pit

WASTE: Agricultural Debris

Col 1 **Processes Associated with this Site**	**Col 2** **Waste Description & Handling Procedures**	**Col 3** **Description & Location of any Artifacts/Structures/Disposal Areas Associated with this Waste or Process**
Debris left from former farming/livestock operations.	Agricultural irrigation pipes abandoned in place from former farming/livestock operations.	**Artifact:** Agricultural Debris **Location:** 5.5 miles north of TAN, just off road T-28 near Birch Creek. **Description:** Site 023 includes two irrigation pipes located near a large gravel pit. The pipes are agricultural in nature, aluminum, and weathered. One pipe is ~6 ft in length; the other is ~20 ft in length.

CONTAMINANT WORKSHEET

SITE ID: 023 **PROCESS:** Debris in Birch Creek Drainage Gravel Pit

WASTE: Agricultural Debris

Col 4 What Known/Potential Hazardous Substance/Constituents are Associated with this Waste or Process?	Col 5 Potential Sources Associated with this Hazardous Material	Col 6 Known/Estimated Concentration of Hazardous Substances/ Constituents	Col 7 Risk-based Concentration	Col 8 Qualitative Risk Assessment (high/med/ low)	Col 9 Overall Reliability (high/med/ low)
None	Soil	None	Not Applicable	Low	High

Question 1. What are the waste generation processes, locations, and dates of operation associated with this site?

Block 1 Answer:

Site 023 contains two aluminum irrigation pipes located near an INEEL gravel pit, 5.5 miles north of TAN, just off road T-28 near Birch Creek. It is estimated that the pipes were abandoned in place approximately fifty years ago.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low
Explain the reasoning behind this evaluation. (check one)

Interviews with INEEL Cultural Resources and Environmental Restoration Environmental Safety and Health (ER ES&H) personnel revealed that the irrigation pipes are agricultural in nature and pose no potential risk.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No
If so, describe the confirmation. (check one)

Interviews were conducted by ER ES&H personnel during a 1994 environmental assessment. Interviews conducted with INEEL Cultural Resource personnel confirm that the pipes likely resulted from a agricultural/livestock operation, and are unrelated to INEEL operations. Photographs confirm the types of debris present at the site.

Block 4 Sources of Information (check appropriate box(es) & source number from reference list)

No Available Information	☐	Analytical Data	☐
Anecdotal	☒ 2,5	Documentation about Data	☐
Historical Process Data	☐	Disposal Data	☐
Current Process Data	☐	QA Data	☐
Photographs	☒ 3	Safety Analysis Report	☐
Engineering/Site Drawings	☐	D&D Report	☐
Unusual Occurrence Report	☐	Initial Assessment	☒ 4
Summary Documents	☐	Well Data	☐
Facility SOPs	☐	Construction Data	☐
Other	☐		

Question 2. What are the disposal processes, locations, and dates of operation associated with this site? How was the waste disposed?

Block 1 Answer:

Site 023 is located within the boundaries of the INEEL, in a gravel pit near Birch Creek, just off road T-28. The site is located ~5.5 miles north of TAN, the nearest INEEL facility. Site investigations indicate that the irrigation pipes resulted from former agricultural/livestock operations approximately fifty years ago.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low
Explain the reasoning behind this evaluation. (check one)

Site investigations and interviews confirmed that this site contained two aluminum irrigation pipes.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No
If so, describe the confirmation. (check one)

Interviews were conducted by ER ES&H personnel during a 1994 environmental assessment. Interviews conducted with INEEL Cultural Resource personnel confirm that the debris likely resulted from a former agricultural/livestock operation, unrelated to the INEEL. Photographs confirm the types of debris present at the site.

Block 4 Sources of Information (check appropriate box(es) & source number from reference list)

No Available Information	☐	Analytical Data	☐
Anecdotal	☒ 2,5	Documentation about Data	☐
Historical Process Data	☐	Disposal Data	☐
Current Process Data	☐	QA Data	☐
Photographs	☒ 3	Safety Analysis Report	☐
Engineering/Site Drawings	☐	D&D Report	☐
Unusual Occurrence Report	☐	Initial Assessment	☒ 4
Summary Documents	☐	Well Data	☐
Facility SOPs	☐	Construction Data	☐
Other	☐		

Question 3. Is there evidence that a source exists at this site? If so, list the sources and describe the evidence.

Block 1 Answer:

There is no visual evidence that a source exists at Site 023. The site consists of two weathered aluminum irrigation pipes. There is no evidence of hazardous constituents, disturbed vegetation, stained or discolored soil, or odors. The pipes were estimated to be ~50 years old, likely resulted from a former agricultural/livestock operations in the Birch Creek area, and unrelated to INEEL operations.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low
Explain the reasoning behind this evaluation. (check one)

Site investigations and interviews with Cultural Resource personnel revealed that the artifacts are old, weathered, agricultural in nature, unrelated to INEEL operations and pose no potential threat to human health or the environment.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No
If so, describe the confirmation. (check one)

This information was confirmed with site investigations, interviews and photographs.

Block 4 Sources of Information (check appropriate box(es) & source number from reference list)

No Available Information	☐	Analytical Data	☐
Anecdotal	☒ 2,5	Documentation about Data	☐
Historical Process Data	☐	Disposal Data	☐
Current Process Data	☐	QA Data	☐
Photographs	☒ 3	Safety Analysis Report	☐
Engineering/Site Drawings	☐	D&D Report	☐
Unusual Occurrence Report	☐	Initial Assessment	☒ 4
Summary Documents	☐	Well Data	☐
Facility SOPs	☐	Construction Data	☐
Other	☐		

Question 4. **Is there empirical, circumstantial, or other evidence of migration? If so, what is it?**

Block 1 **Answer:**

There is no evidence of migration at Site 023. Site investigations reveal no visual evidence of hazardous constituents, disturbed, stained or discolored soil areas, or odors. The vegetation appears to be well established.

Block 2 **How reliable are the information sources?** ☒ **High** ☐ **Med** ☐ **Low**
Explain the reasoning behind this evaluation. **(check one)**

Visual inspections and photographs of the site show that vegetation is well established, the artifacts are old, weathered, agricultural in nature, and unrelated to INEEL operations.

Block 3 **Has this INFORMATION been confirmed?** ☒ **Yes** ☐ **No**
If so, describe the confirmation. **(check one)**

This information was confirmed through site inspections, interviews, and photographs.

Block 4 **Sources of Information** **(check appropriate box(es) & source number from reference list)**

No Available Information	☐	Analytical Data	☐
Anecdotal	☒ 2,5	Documentation about Data	☐
Historical Process Data	☐	Disposal Data	☐
Current Process Data	☐	QA Data	☐
Photographs	☒ 3	Safety Analysis Report	☐
Engineering/Site Drawings	☐	D&D Report	☐
Unusual Occurrence Report	☐	Initial Assessment	☒ 4
Summary Documents	☒ 1	Well Data	☐
Facility SOPs	☐	Construction Data	☐
Other	☐		

Question 5. **Does site operating or disposal historical information allow estimation of the pattern of potential contamination? If the pattern is expected to be a scattering of hot spots, what is the expected minimum size of a significant hot spot?**

Block 1 **Answer:**

There is no expected pattern of potential contamination because there is no evidence of hazardous substances at the site. The debris consists of two weathered aluminum irrigation pipes. There is no visual evidence of stained or discolored soil in the area, or evidence of disturbed vegetation.

Block 2 **How reliable are the information sources?** ☒ **High** ☐ **Med** ☐ **Low**
Explain the reasoning behind this evaluation. **(check one)**

This information was obtained from a 1994 environmental baseline assessment, subsequent site investigation, interviews, and photographs taken during the investigations showing the artifacts and present description of the site.

Block 3 **Has this INFORMATION been confirmed?** ☒ **Yes** ☐ **No**
If so, describe the confirmation. **(check one)**

This information was confirmed through site inspections, photographs and interviews

.

Block 4 **Sources of Information** **(check appropriate box(es) & source number from reference list)**

No Available Information	☐	**Analytical Data**	☐
Anecdotal	☒ 2,5	**Documentation about Data**	☐
Historical Process Data	☐	**Disposal Data**	☐
Current Process Data	☐	**QA Data**	☐
Photographs	☒ 3	**Safety Analysis Report**	☐
Engineering/Site Drawings	☐	**D&D Report**	☐
Unusual Occurrence Report	☐	**Initial Assessment**	☒ 4
Summary Documents	☒ 1	**Well Data**	☐
Facility SOPs	☐	**Construction Data**	☐
Other	☐		

Question 6. **Estimate the length, width, and depth of the contaminated region. What is the known or estimated volume of the source? If this is an estimated volume, explain carefully how the estimate was derived.**

Block 1 **Answer:**

There is no evidence of a source or contaminated region to estimate because there is no evidence of hazardous constituents at this site. Investigations and photographs indicate that one irrigation pipe is ~ 6 ft in length, and the other ~20 ft in length. They are both ~ 6-8 in. in diameter. Both are weathered and show signs of use.

Block 2 **How reliable are the information sources?** ☒ **High** ☐ **Med** ☐ **Low**
Explain the reasoning behind this evaluation. **(check one)**

This information was obtained from an environmental baseline assessment conducted in 1994, and a subsequent site investigation. There is no evidence that the two irrigation pipes pose a potential risk. Photographs taken during the survey show that the vegetation is well established and there is no evidence of stained or discolored soil.

Block 3 **Has this INFORMATION been confirmed?** ☒ **Yes** ☐ **No**
If so, describe the confirmation. **(check one)**

This information was confirmed through site inspections, interviews, and photographs.

Block 4 **Sources of Information** **(check appropriate box(es) & source number from reference list)**

No Available Information	☐	**Analytical Data**	☐
Anecdotal	☒ 2,5	**Documentation about Data**	☐
Historical Process Data	☐	**Disposal Data**	☐
Current Process Data	☐	**QA Data**	☐
Photographs	☒ 3	**Safety Analysis Report**	☐
Engineering/Site Drawings	☐	**D&D Report**	☐
Unusual Occurrence Report	☐	**Initial Assessment**	☒ 4
Summary Documents	☒ 1	**Well Data**	☐
Facility SOPs	☐	**Construction Data**	☐
Other	☐		

Question 7. What is the known or estimated quantity of hazardous substance/constituent at this source? If the quantity is an estimate, explain carefully how the estimate was derived.

Block 1 Answer:

The estimated quantity of hazardous substances/constituents at this site is near zero because there is no evidence of any hazardous materials. The site consists of two aluminum irrigation pipes that likely resulted from former agricultural/livestock operations. The pipes are estimated to be ~50 years old, weathered, and unrelated to INEEL operations.

Block 2 How reliable are the information sources? ☒ High ☐ Med ☐ Low
Explain the reasoning behind this evaluation. (check one)

This information was obtained from an environmental baseline assessment, site investigation, and photographs; none revealed evidence of hazardous constituents.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No
If so, describe the confirmation. (check one)

This information was confirmed through site inspections, interviews, and photographs.

Block 4 Sources of Information (check appropriate box(es) & source number from reference list)

No Available Information	☐	Analytical Data	☐
Anecdotal	☒ 2,5	Documentation about Data	☐
Historical Process Data	☐	Disposal Data	☐
Current Process Data	☐	QA Data	☐
Photographs	☒ 3	Safety Analysis Report	☐
Engineering/Site Drawings	☐	D&D Report	☐
Unusual Occurrence Report	☐	Initial Assessment	☒ 4
Summary Documents	☒ 1	Well Data	☐
Facility SOPs	☐	Construction Data	☐
Other	☐		

Question 8. Is there evidence that this hazardous substance/constituent is present at the source as it exists today? If so, describe the evidence.

Block 1 Answer:

There is no evidence that a hazardous substance or constituent is present at levels that require action at this site. Investigations and interviews confirm that the irrigation pipes are agricultural in nature, very old and unrelated to INEEL operations.

Block 2 How reliable are the information sources? ☐ High ☐ Med ☐ Low
Explain the reasoning behind this evaluation. (check one)

This evaluation is based on interviews, site investigations, and photographs of the area. The ground surface shows no evidence of soil staining or discoloration, and vegetation appears to be well established. There is no evidence of hazardous constituents.

Block 3 Has this INFORMATION been confirmed? ☒ Yes ☐ No
If so, describe the confirmation. (check one)

This information was confirmed through site inspections, interviews, and photographs.

Block 4 Sources of Information (check appropriate box(es) & source number from reference list)

No Available Information	☐	Analytical Data	☐
Anecdotal	☒ 2,5	Documentation about Data	☐
Historical Process Data	☐	Disposal Data	☐
Current Process Data	☐	QA Data	☐
Photographs	☒ 3	Safety Analysis Report	☐
Engineering/Site Drawings	☐	D&D Report	☐
Unusual Occurrence Report	☐	Initial Assessment	☒ 4
Summary Documents	☒ 1	Well Data	☐
Facility SOPs	☐	Construction Data	☐
Other	☐		

REFERENCES

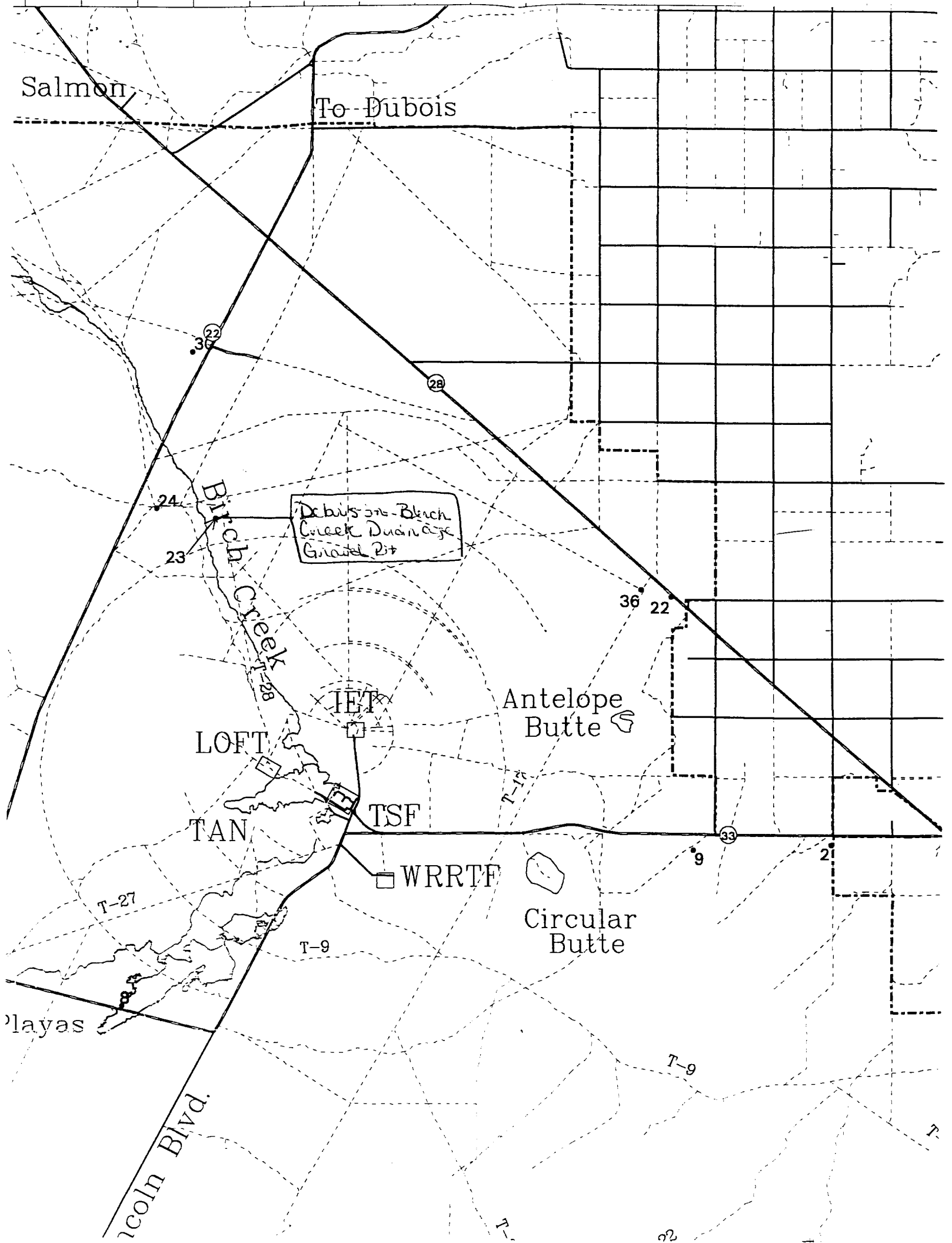
1. DOE, 1992, Track 1 Sites: Guidance for Assessing Low Probability Sites at the INEL, DOE/ID-10390 (92), Revision 1, U.S. Department of Energy, Idaho Falls, Idaho, July.

2. Interview with an Environmental Baseline Assessment team member, February 6, 2001.

3. Photographs of Site 023: PN99-0456-1-1, PN99-0456-1-3.

4. FY 1999 WAG 10 Newly Identified Sites, Volumes I and II.

5. Interviews with Brenda Ringe Pace, INEEL Cultural Resources Management, February 7 and May 16, 2001.


Salmon
To Dubois
22
3
28
24
23
Birch Creek
T-28
Dubois-Birch Creek Drainage Gravel Pit
36
22
IET
LOFT
TAN
TSF
WRRTF
Antelope Butte
Circular Butte
T-12
33
9
2
T-27
T-9
Playas
Lincoln Blvd.
T-9

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Attachment A

Photographs of Site #023

Site: 023 Debris in Birch Creek Drainage Gravel Pit
(PN99-0456-1-1)

Site: 023 Debris in Birch Creek Drainage Gravel Pit
(PN99-0456-1-3)

DRAFT

Attachment B

Supporting Information for Site #023

435.36
04/14/99
Rev. 03

NEW SITE IDENTIFICATION

Part A – To Be Completed By Observer

1. Person Initiating Report: Jacob Harris	Phone: 526-1877
Contractor WAG Manager: Douglas Burns	Phone: 526-4324

2. Site Title: 023, Debris in Birch Creek Drainage Gravel Pit

3. Describe the conditions that indicate a possible inactive or unreported waste site. Include location and description of suspicious condition, amount or extent of condition and date observed. A location map and/or diagram identifying the site against controlled survey points or global positioning system descriptors shall be included to help with the site visit. Include any known common names or location descriptors for the waste site.

There is debris in a gravel pit that Birch Creek used to drain into north of TAN, just off road T-28. During the August 1999 site visit, the observed surface debris included aluminum irrigation pipes in one of the pits. The GPS coordinates of the site are E346687.307 by N821354.899. The reference number for this site is 023 and can be found on the summary map as provided.

Part B – To Be Completed By Contractor WAG Manager

4. Recommendation:

☒ This site meets the requirements for an inactive waste site, requires investigation, and should be included in the INEEL FFA/CO Action Plan. Proposed Operable Unit assignment is recommended to be included in the FFA/CO.
WAG: Operable Unit:

☐ This site DOES NOT meet the requirements for an inactive waste site, DOES NOT require investigation and SHOULD NOT be included in the INEEL FFA/CO Action Plan.

5. Basis for the recommendation:

The conditions that exist at this site indicate the potential for an inactive waste site according to Section 2 of MCP-3448 Reporting or Disturbance of Suspected Inactive Waste Sites.

The basis for recommendation must include: (1) source description; (2) exposure pathways; (3) potential contaminants of concern; and (4) descriptions of interfaces with other programs, as applicable (e.g., D&D, Facility Operations, etc.)

6. Contractor WAG Manager Certification: I have examined the proposed site and the information submitted in this document and believe the information to be true, accurate, and complete. My recommendation is indicated in Section 4 above.

Name: _____ Signature: _____ Date: _____